

Date: Mon, 7 Feb 94 04:30:20 PST
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #24
To: Ham-Equip

Ham-Equip Digest Mon, 7 Feb 94 Volume 94 : Issue 24

Today's Topics:

 Adapting FT-530 to use cigarette lighter of car
 ALINCO DJ-580 "Intermod" (2 msgs)
 Apology for previous..
Group purchase of FoxTango Newsletters (Yaesu FT101 era)
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 ICOM W2A & Speaker Mike
 Old QSTs for Sale/1920s&30s/W1GDA
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 Radio Shack CB Range
 Rotor help - wiring diagram
 TEMPEST - Electronic Eavesdropping
 Where to find spectrum analyzers?
 Yaesu FT-5200 dies at -44 F

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Sat, 5 Feb 1994 01:10:11 GMT
From: ucsnews!sol.ctr.columbia.edu!howland.reston.ans.net!vixen.cso.uiuc.edu!
moe.ksu.ksu.edu!krypton.hpc.sdsmt.edu!ep06_ee.sdsmt.edu!hpaik@network.ucsd.edu
Subject: Adapting FT-530 to use cigarette lighter of car
To: ham-equip@ucsd.edu

In article <2ik4f0\$at5@orca.es.com> angerhof@bambam.es.com (Norman Angerhofer)
writes:
>Path:

>krypton.hpc.sdsmt.edu!moe.ksu.ksu.edu!crcnis1.unl.edu!wupost!cs.utexas.edu!uunet
>!orca.es.com!bambam!angerhof
>From: angerhof@bambam.es.com (Norman Angerhofer)
>Newsgroups: rec.radio.amateur.equipment
>Subject: Adapting FT-530 to use cigarette lighter of car
>Date: 31 Jan 1994 23:32:48 GMT
>Organization: Design Systems Division, Evans & Sutherland, SLC, UT
>Lines: 22
>Distribution: na
>Message-ID: <2ik4f0\$at5@orca.es.com>
>NNTP-Posting-Host: 130.187.85.113

>I would like to run my FT-530 from the 13.8v DC coming from the
>cigarette lighter of my car (while the car is running).

>Do I need to do anything to condition the 13.8v before feeding it
>into the DC input of the FT-530? Namely:

- > 1) Do i need to filter the DC to prevent engine noise from coming
> through?
- > 2) Add some sort of Zener diodes or MOV's to prevent voltage
> surges from wiping out my radio?

>(I would rather not buy the \$29.95 adapter which Yaesu makes if I can
> provide equally good protection for the radio for much less.)

>--Norman Angerhofer AA7QG
> angerhof@dsd.es.com

>--
>Norman Angerhofer angerhof@dsd.es.com
>540 Arapeen Dr.
>SLC, UT 84108

I'm using right now by supplying 13.8V from the battery while running
the car. But I am very careful that make sure ft530 be turned off
when trun on or off the ignition key. I have not had any problem so far.

Date: Mon, 7 Feb 1994 01:39:23 GMT
From: spool.mu.edu!torn!csd.unb.ca!UNBVM1.CSD.UNB.CA@uunet.uu.net
Subject: ALINCO DJ-580 "Intermod"
To: ham-equip@ucsd.edu

In article <2j3hjt\$sho@usenet.INS.CWRU.Edu> b1593@cleveland.Freenet.Edu (Roger E.

Wilcox) writes:

>
> I'm about to send my DJ-580 in (again) to have the "intermod"
> repaired. My transceiver would be quite satisfactory if I didn't have
> the "intermod" problem with the UHF receiver. My VHF receiver seems ok.
> ALINCO changed R419 and R472 the last time it was in for service but
> that didn't seem to help the "intermod" problem.
>
> I would be interested to hear from other DJ-580 owners about
> their "intermod" experience. Has your DJ-580 been repaired?
>
> 73, Roger-W80ZY

A friend of mine has just received his rig which he had modified, he thinks, after he sent it in because the radio had caught fire while being used in a car, powered by the cigarette lighter attachment.

It is too early to tell whether the intermod problem has been cured. In a few days we will be able to tell you more. I have the same type of rig and our complaint here is with the VHF part of it. We monitor mostly 147.12 mhz and even 15 miles outside a small city of 50,000 we often have to turn off the volume completely so as not to bother the folks around us. Today, with a few friends, I was walking through the woods, monitoring the local repeater 15-20 miles away, with the VHF part of the radio on (only) and I often heard all kinds of racket coming out of the radio.

To be honest, we were walking around a beaver pond, so this might explain the problem:-) Or could it be QRM coming from a satellite?

My friend had the parts you mentioned replaced, and also Q4161. The latter may have had something to do with the "fire" which melted part of the radio and the battery case.

73 de Luis Nadeau, VE9LN

Date: 6 Feb 1994 19:49:17 GMT
From: pacbell.com!sgiblab!spool.mu.edu!howland.reston.ans.net!usenet.ins.cwru.edu!
cleveland.Freenet.Edu!bl593@network.ucsd.edu
Subject: ALINCO DJ-580 "Intermod"
To: ham-equip@ucsd.edu

I'm about to send my DJ-580 in (again) to have the "intermod" repaired. My transceiver would be quite satisfactory if I didn't have the "intermod" problem with the UHF receiver. My VHF receiver seems ok. ALINCO changed R419 and R472 the last time it was in for service but

that didn't seem to help the "intermod" problem.

I would be interested to hear from other DJ-580 owners about their "intermod" experience. Has your DJ-580 been repaired?

73, Roger-W80ZY

Date: 6 Feb 94 19:50:48 GMT
From: pacbell.com!sgiblab!swrinde!cs.utexas.edu!news.unt.edu!sol!
io90@network.ucsd.edu
Subject: Apology for previous..
To: ham-equip@ucsd.edu

Oops Sorry guys- I inadvertantly posted a for sale ad here. Vax machines and I rarely get along when im trying to post to rec.radio anything. Please forgive me.

Trey

Date: 2 Feb 94 19:51:04
From: mvb.saic.com!unogate!news.service.uci.edu!usc!howland.reston.ans.net!
sol.ctr.columbia.edu!news.kei.com!ub!dsinc!netnews.upenn.edu!mipg.upenn.edu!
yee@network.ucsd.edu
Subject: Group purchase of FoxTango Newsletters (Yaesu FT101 era)
To: ham-equip@ucsd.edu

Before I submit an order for the FoxTango Newsletters to IRC I wanted to ask one last time if there are any interested parties who would like to get in on the group purchase.

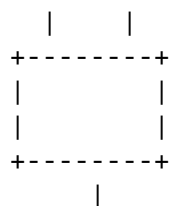
--
Medical Image Processing Group | Conway Yee, N2JWQ
411 Blockley Hall | EMAIL : yee@mipg.upenn.edu
418 Service Drive | VOICE : 1 (215) 662-6780
Philadelphia, PA 19104-6021 (USA) | FAX : 1 (215) 898-9145

Date: Fri, 4 Feb 1994 10:22:36 +0100
From: usc!elroy.jpl.nasa.gov!sdd.hp.com!swrinde!cs.utexas.edu!
howland.reston.ans.net!EU.net!Germany.EU.net!netmbx.de!zib-berlin.de!fauern!

rrze.uni-erlangen.de!not-for-mail@network.ucsd.edu
Subject: help need: searching for the right type of diodes
To: ham-equip@ucsd.edu

Hello out there

this is the second effort to get an information about a special type of SMD-diode. the diodes are from the ICOM amateur-radio-department. you need the two diodes to expand the handheld transceiver IC-W2E (it's a duobander). the modifying-description says that the type of the diodes must be MA-122 or MA-123 which cost a lot of money.
now i try to paint the diodes, so that you could better imagine:



as you could see, there a THREE pins!!!!

Now my questions:

1. Is this diode a double diode?
2. if it is, where are the anodes and kathodes? Is it a double kathode/anode?
3. is there any type of different diode so that i don't need to by the expensive ones?
4. and last but not least: is there any modifikation of the handheld to do packet radio with 9600 baud and not 1200?

please answer directly to my, beacause i posted this article in serveral groups (to get more answer) which i don't supsrise.

73 and many thanks so long

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+-----+
|Torsten Fechner  Studing-QTH: Erlangen,JN59MN      Home-QTH: Passau,JN68R0 |
|Internet-email:      tnfechne@cip.informatik.uni-erlangen.de                |
|Amateur-Radio : DG7RO  MyBBS: DB0WGS.#BAY.DEU.EU                          |
+-----+

```

Date: 2 Feb 1994 20:55:08 -0800
From: mvb.saic.com!unogate!news.service.uci.edu!usc!cs.utexas.edu!math.ohio-
state.edu!cyber2.cyberstore.ca!vanbc.wimsey.com!vanbc.wimsey.com!not-for-
mail@network.ucsd.edu

Subject: ICOM - IC-R71A - help it's dead
To: ham-equip@ucsd.edu

Gee. Will my R71A transmit T00? Had it all these years, and diidn't know that....

Date: 6 Feb 1994 19:39:16 GMT
From: pacbell.com!sgiblab!spool.mu.edu!howland.reston.ans.net!usenet.ins.cwru.edu!
cleveland.Freenet.Edu!cs684@network.ucsd.edu
Subject: ICOM W2A & Speaker Mike
To: ham-equip@ucsd.edu

Does anyone have a mod to allow one to use the internal speaker
for receive audio AND use the microphone?

--Charlie
--WD5GNW

Date: 4 Feb 1994 13:56:30 GMT
From: mustang.mst6.lanl.gov!nntp-server.caltech.edu!news.claremont.edu!
paris.ics.uci.edu!csulb.edu!nic-nac.CSU.net!usc!sol.ctr.columbia.edu!news.kei.com!
eff!news.umbc.edu!haven@nntp.ucsb.edu
Subject: Old QSTs for Sale/1920s&30s/W1GDA
To: ham-equip@ucsd.edu

Looking for offers that include shipping. Poss delivery in DC/MD area. Plan
to start indexing later ones in 30s-50s SOON> Will post up date here! Dick

QST holdings

* = no cover

(#)= number of issues I have greater that one!

@=top corner eaten to pg 24!

YEAR	MONTHS												
1922		J	F	M*	A*	M	J	J	S	O	N	D	
1923		J	F	M	A	M	J	J	A	S	O	N	D
1924		F*	M										
1925	J	F	M	A(3)	M	J	J	A	S	O	N	D	
1926	None	-----											
1927	J	F	M	A	M	J	J	A	S	O	N	D(2)*	
1928	J	F	M	A	M	J	J	A	S	O	N	D +Index	
1929	J	F	M	A		J	J	A(2)	S(2)	O	N	D	
1930	J(3)	F(2)	M	(2)A(2)	M	(2)J(2)	J	A(2)	S(2)	O(2)	N	D(2)	
1931	J*		A	M*	J	A	S						
1932		F	M		M	J	J		O	N	D		

```

1933          A
1934 None-----
1935      A
1936 on not indexed yet, SOON!

```

Date: 6 Feb 94 19:36:35 GMT
From: pacbell.com!sgiblab!swrinde!cs.utexas.edu!news.unt.edu!sol!
io90@network.ucsd.edu
Subject: Price reduction - Kenwood TW-4000A 2m/440 mobile
To: ham-equip@ucsd.edu

Kenwood tw4000-a 5-10w low <adj> 25w Hi, cosmetically its not that pretty, scratches, cuts and dents. also a CB is mounted on top of it with a velcro type substance. Works well, only problem is with the digital voice that reads out the frequency <Normally you can just push the VR button to get the full readout but you have to hold it down. <Minor problem>

Also two magmount antennas to go with it.

Kenwood \$500
Antennas \$50 <25 each>

\$550 NEW.

Asking \$325

Trey - N5RXZ

Date: Fri, 04 Feb 94 04:57:19 GMT
From: netcomsv!netcomsv!bongo!skyld!jangus@decwrl.dec.com
Subject: Radio Shack CB Range
To: ham-equip@ucsd.edu

In article [name deleted to protect the guilty] writes:

```
>  
> Jason Olson (jolson@micromed.com) wrote:  
> : Could someone please tell me what the apx. range is for those chep-o $50  
> : radio shack car CB's?  
> : Thanx in adv.  
>  
> Try rec.radio.cb instead of this group.
```

Yup. Another adam-henry promoting good will and encouraging newcomers to

join our ranks.

Jason, the basic range of one of them 5 watt CB is about 1-2 miles on the freeway if you don't get stepped on. Lots of milage with a decent antenna and a fairly quite surrounding. (Not likely in any large metropolitian area)

They work great for a group of people to stay in touch while going in the same direction.. (Gasp, a convoy) We (the people I used to go on field day) used to use them to stay in touch and remind each other of things left behind when we went up in the mountains to go on the field day activities.

Oh, and to the self appointed protector of the purity of this group, I seem to remember Jason's original posting where he said he had gotten no response in rece.radio.cb and figured he would try this group since he assumed we would know.

Amateur: WA6FWI@WA6FWI.#SOCA.CA.USA.NA	"It is difficult to imagine our
Internet: jangus@skyld.tele.com	universe run by a single omni-
US Mail: PO Box 4425 Carson, CA 90749	potent god. I see it more as a
Phone: 1 (310) 324-6080	badly run corporation."

Date: Sun, 6 Feb 1994 20:28:50
From: solaris.cc.vt.edu!mbarts.bevb.blacksburg.va.us!mbarts@uunet.uu.net
Subject: Rotor help - wiring diagram
To: ham-equip@ucsd.edu

A while back I picked up a Wilson WR-500 rotor at a hamfest. Does anybody have a wiring diagram for it? It has an eight pin socket (like a tube base) on the back of the control box and an eight pin jack on the rotor itself. It probably wires straight through but would like to know for sure before I cross my fingers and try it (I've wired too many U-100's from memory). Thanks for any help.

73, Mike KB4NT
mbarts@vt.edu

Date: 6 Feb 1994 21:19:37 -0500
From: agate!spool.mu.edu!sol.ctr.columbia.edu!usc!yeshua.marcam.com!
zip.eecs.umich.edu!montego!not-for-mail@network.ucsd.edu
Subject: TEMPEST - Electronic Eavesdropping
To: ham-equip@ucsd.edu

In article <2j3m8h\$m6j@percy.cs.bham.ac.uk>,
Rob Jackson <roj@cs.bham.ac.uk> wrote:

>

>In the US it not illegal to posess TEMPEST-surveillance equipment but
>it is illegal to take appropriate counter-measures to prevent
>surveillance. The US government has refused to release details of its
>TEMPEST research and has restricted the dissemination of independent
>research by classifying it.

In no way does that equate to it being illegal to attempt to
suppress spurious electromagnetic radiation from computing devices. The
FCC even has rules requiring EMI/RFI filtering & suppression for
civillian & commercial computers & peripherals, albeit not in the name
of national security.

>The US Drug Enforcement Agency (DEA) makes use of
>TEMPEST secured
>electronics and computers as they believe that the drug cartels may
>possess surveillance equipment.

>

Yes & no. Some DEA processing machines contain or are capable of
accessing classified information. That alone requires the machines and/or
their containing room to meet certain TEMPEST criteria. The classified
info is what necessitates TEMPEST, and not specifically the belief that
narcotic organizations are using Van Eck devices, etc.

--

Tim Tyler Internet: tim@ais.org Packet: KA8VIR @WB8ZPN.#SEMI.MI.USA.NA
P.O. Box 443 C\$erve:72571,1005 GENie:Sneaker AOL:Hooligan MCI: 442-5735
Ypsilanti MI "I'm just an innocent little frog, trying to
48197 hop my way across the Information Superhighway"

Date: Wed, 2 Feb 1994 19:04:02 GMT
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sdd.hp.com!hpscit.sc.hp.com!
hplextra!hpfco!hplvec!tcline@network.ucsd.edu
Subject: Where to find spectrum analyzers?
To: ham-equip@ucsd.edu

In rec.radio.amateur.equipment, trier@odin.ins.cwru.edu (Stephen C. Trier) writes:

> Are there any tricks on finding affordable spectrum analyzers? What is
> the reasonable price range for them? I've seen a few advertised in ham
> radio catalogs, but they don't seem to be listed in the usual
> electronic equipment catalogs.

>

> I'm curious mostly for my own edification, rather than for immediate
> purchase.
>
> Stephen
>
> --
> Stephen Trier KB8PWA Dave: [H]as anyone ever met a Zamboni driver?
> Other: trier@ins.cwru.edu Mike: The next version of OS/2 will include a
> Home: sct@po.cwru.edu
> (dave@cs.arizona.edu & miked@vnet.ibm.com)

How about used equipment resellers, like:

RAG Electronics, Inc.	(I have never dealt with them, but I get
21418 Parthenia St	their catalogs)
Canoga Park, CA 91304-1597	
800-358-3457	

There are also shareware PC programs that do audio spectrums with an op
amp and change for an interface.

Hope this helps!

73

Ted Cline, NØRQV
ted_cline@hpsla.lvld.hp.com
Day: (303) 679-2352

Date: 3 Feb 94 00:05:40 -0700
From: mvb.saic.com!unogate!news.service.uci.edu!usc!sol.ctr.columbia.edu!
hamblin.math.byu.edu!yvax.byu.edu!sandersm@network.ucsd.edu
Subject: Yaesu FT-5200 dies at -44 F
To: ham-equip@ucsd.edu

In article <CKK73D.9FA@cix.compulink.co.uk>, jnewgas@cix.compulink.co.uk ("John
Newgas") writes:

> The chances are that your FT 5200 is not fatally dead. What may have
> happened is that the battery voltage has dropped below one of the
> thresholds and the internal micro-processor has locked up.
>

> Try a full hard reset : Put a pin or similar thru' the RESET hole in the
> back of the control head. Refit the control head. Press MHz and DVS
> whilst switching on.
>
> Good luck
> John N. (Blinked Message)

My FT-2400H locked up because I left the radio on when I started the car. It also locked up several times while running on Gel Cell batteries when I let the voltage drop too low. Solution was to hold the two reset buttons (mentioned in the instructions) while pushing the power switch. This worked even though the radio was stuck in the "on" mode. It does erase all memories, but did unlock the CPU. Use the "hard" reset (mechanical/electrical) only as a last resort. But mine was not the 5200, so hope this helps.

Milt
KB7MSF

Date: Mon, 7 Feb 1994 02:09:14 GMT
From: agate!netsys!direct!kg7bk@network.ucsd.edu
To: ham-equip@ucsd.edu

References <CKM79r.45H@sunsrvr6.cci.com>, <2ire53\$o2g@explorer.clark.net>, <2iui7p\$vm@cascade.ens.tek.com>
Subject : Re: Vertical Antennas

Terry Burge (t1terryb@cascade.ens.tek.com) wrote:

: >>A quarter wave ground plane has a gain of some-
: >>where around 6 db over isotropic where a dipole has a gain of 2.14 db over
: >>isotropic at it's theoritical best. Terry Burge KI7M

I can't always tell who said what but whoever said a dipole has a gain of 2.14db over isotropic has to remember that that is in free space. A half-wave horizontal dipole over ground has somewhere around 7dbi gain depending on the ground. A half-wave horizontal dipole at a reasonable height has more gain than a quarter-wave vertical. A half-wave vertical has more gain than a quarter-wave vertical.

73, Cecil, kg7bk@indirect.com

End of Ham-Equip Digest V94 #24

